

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-170670
(43)Date of publication of application : 30.06.1997

51)Int.CI.

F16K 11/00

21)Application number : 07-349220
22)Date of filing : 19.12.1995

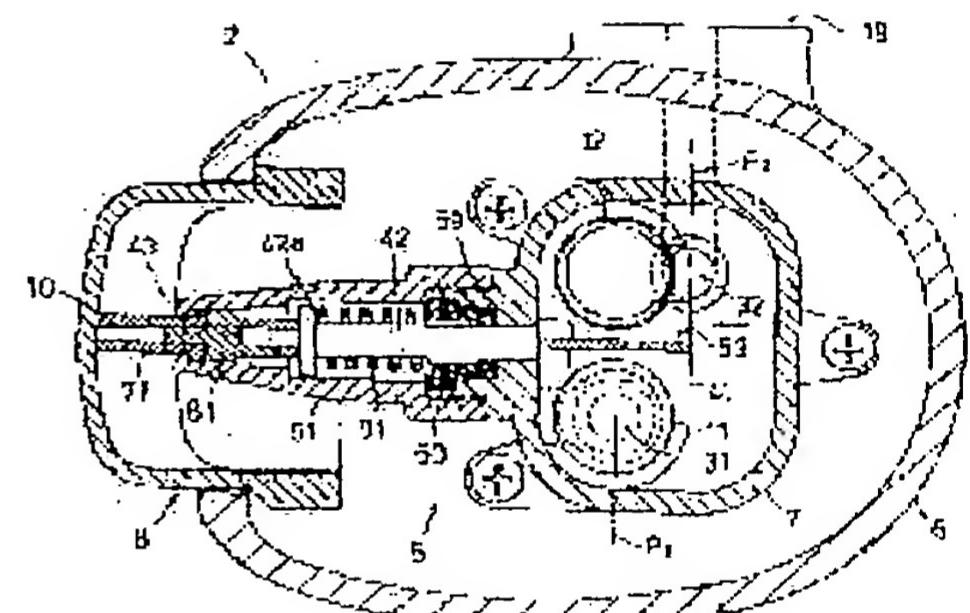
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54) MULTI-WAY VALVE

57)Abstract:

PROBLEM TO BE SOLVED: To convert the flow passage easily and securely, by providing an abutting member to displace a sphere forcibly, and to open and close a discharge port; a pressing member to operate the abutting member; a reciprocating movable member to transmit the displacement to the abutting member; and a temporary stopping mechanism to stop the reciprocating movable member in plural specific positions.

SOLUTION: In the condition a push-button 10 is not pushed, a reciprocating cam 71 and a rotary cam 81 are inserted to the groove of a guide tube 61 of a temporary stopping mechanism 43, the rotary cam 81 is energized by a spring 91 through a reciprocating shaft 42, an abutting member 41 is at a stopping position P1, the discharge port 31 of a valve case 7 is blocked by a ball 11, and a discharge port 32 is opened. When the push-button 10 is pushed, the reciprocating cam 71 is slid in the guide tube 61 in the direction of the valve case 7, the rotary cam 81 is also slid, the reciprocating shaft 42 and the abutting member 41 move to the stopping position P2 side, and the discharge port 31 is opened. When the pressing operation force of the push-button 10 is released, the abutting member 41 stops at the stopping position P2, the discharge port 31 is opened, and the discharge port 32 is blocked. When the push-button 10 is pushed again, all members are restored to the original condition. Consequently, the flow passage can be converted securely in an easy operation.



LEGAL STATUS

[Date of request for examination] 21.10.2002
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]

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